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IDEALIST

SUBJECT: IRIS II EVALUATION, MISSION GT69-375, 14 OCTOBER 1969

1. IMAGE QUALITY: MISSION GT69-375 WAS FLOWN OVER EDWARDS AIR FORCE BASE RESOLUTION TARGET RANGE; HOWEVER, CLOUDS AND SEVERELY DEGRADED THE IMAGERY AND MEANINGFUL RESOLUTION TARGET READINGS WERE NOT ACQUIRED. ON CLOUD FREE PHOTOGRAPHY, THE GROUND RESOLUTION WAS ESTIMATED TO BE ON FORWARD AND ON AFT FRAMES. IMAGE DEGRADATION IN THE ALONG TRACK (FMC) DIRECTION IS EVIDENT ON THE AFT FRAMES.

2. MISSION DATA:

- A. MISSION GT69-375 OF 14 OCTOBER 1969
- B. CAMERA NUMBER: S/N 8013
- C. MODE OF OPERATION: STEREO
- D. FILM TYPE/FILTER: 3404/W-23A
- E. FILM LENGTH: 7500 FEET
- F. PROCESSING: DUAL GAMMA CHEMISTRY.

3. ORIGINAL NEGATIVE:

- A. EXPOSURE: GOOD

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B. IMAGED DEGRADATION: MINUS DENSITY LINES ALONG THE MAJOR AXIS OF THE FILM ARE MORE SEVERE THAN ON PREVIOUS MISSIONS. A SHARP DENSITY CHANGE IS EVIDENT AT 14 DEGREES LEFT ON AFT FRAMES THROUGHOUT THE FIRST HALF OF THE MISSION. THIS ANOMALY WAS DESCRIBED AS A "SLIT HANG-UP" ON PREVIOUS MISSIONS. PLUS DENSITY PRESSURE MARKS AT 65 DEGREES RIGHT AND 40 DEGREES LEFT ARE EVIDENT THROUGHOUT THE MISSION. A SHARP PLUS DENSITY PATTERN, APPARENTLY CAUSED BY A LIGHT LEAK, IS LOCATED AT 45 DEGREES RIGHT ON ALL FORWARD FRAMES THAT CONTAIN UNIFORM, HEAVY DENSITY.

C. STATIC: STATIC LINES ASSOCIATED WITH THE 45 DEGREES AIR BARS ARE PRESENT INTERMITTENTLY. OTHER ROWS OF PLUS DENSITY STATIC PATTERNS, PARALLEL TO THE MINOR AXIS, ARE RANDOMLY LOCATED THROUGHOUT THE MISSION.

D. BANDING: HIGH FREQUENCY BANDING IS EVIDENT IN AREAS WHERE THE DENSITY IS UNIFORM.

E. METERING: MISMETERING OCCURED INTERMITTENTLY THROUGHOUT THE MISSION. THE FORWARD FRAMES ARE SHIFTED TOWARD THE TAKEUP AS MUCH AS TWO INCHES.

F. AUXILIARY DATA: RECORDED SATISFACTORILY.

4. COMMENTS: THE ANOMALIES ON THIS MISSION ARE MORE NUMEROUS THAN ON PREVIOUS MISSIONS. SPECIFIC CAUSES ARE UNDETERMINED; HOWEVER, MOST OF THE ANOMALIES COULD BE CAUSED BY IMPROPER FILM TENSION DURING CAMERA

OPERATION. EXCESSIVE TENSION COULD ALSO RESTRICT FMC ON AFT FRAMES AND

THUS CAUSE THE DEGRADATION PREVIOUSLY DESCRIBED.

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END OF MESSAGE

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